

SYLVANIA

ELECTRIC PRODUCTS INC.

EMPORIUM, PA.

August 20, 1954

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 CLASS. CHANGED TO: TS S C
 NEXT REVIEW DATE: _____
 AUTH: HR 70-2
 DATE: 28/11/80 REVIEWER: 037169

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COPY
 [Redacted]
 Washington 25, D. C.

Dear [Redacted]

Your letter of August 12 concerning gaseous electron tubes has been referred to this office. For review, the following information was requested:

1. Type of gas and percentages, if a mixture
2. Percent purity of the gas or gases
3. Pressure of the gas
4. Physical dimensions of the tubes
5. Nature of the cathode surface
6. Structure and nature of material of the plate

Types

2D21	CK1034	CK1038	CK57837A
OA2	CK1035	CK1039	CK5787
OB2	CK1036	CK1042	CK57877A
5696	CK1037	CK5783	CK6213
	RK61		

First of all, Sylvania manufactures only three of the above, namely, the types OA2, OB2 and 2D21. The type 5696 and CK/RK series tubes are supplied by other manufacturers. The information you have requested, with the possible exception of dimensions, is of a variable nature at best. As with all other tube types, gaseous tubes are supplied to certain specified electrical limits which reflect the expected performance. To obtain or abide by these limits, it is often necessary to change the gas content, the pressure, the cathode and plate materials and the cathode coating (when employed). Therefore, at best, such information would only be accurate for a particular lot manufactured at a particular time.

With the hope that you will find some general information of use, the following data is being supplied:

<u>Item</u>	<u>OA2</u>	<u>OB2</u>	<u>*2D21</u>
Anode	Nickel Plated Steel	Nickel Plated Steel	Nickel
Cathode	Nickel	Nickel	Nickel (Coated)

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<u>Item</u>	<u>OA2</u>	<u>OB2</u>	<u>*2D21</u>
Starter	Nickel	Nickel	-
Grid	-	-	Nickel Plated Steel
Shield	-	-	Nickel Plated Steel
Gas	98% Helium 2% Argon	98% Helium 2% Argon	Xenon
Gas Pressure (Hg)	80 mm	60 mm	180 microns
Gas Purity	Not available	Not available	99.99%
Plate Dimensions	0.500" i.d.; 1.142" long	0.500" i.d.; 1.142" long	Not available

* The type 2D21 has just been picked up by Sylvania in extremely small production quantities within the past year. Therefore, not all items are established.

If you desire further information or assistance, it is recommended you contact Mr. Walter J. Bank. He may be reached at our Washington Office as follows:

Sylvania Electric Products Inc.
1200-03 Walker Building
734 - 15th Street, N.W.
Washington 5, D. C.
Phone: REpublic 7-7733

Yours very truly

SYLVANIA ELECTRIC PRODUCTS INC.

H. B. Hagman
H. B. Hagman, Field Engineer
Radio Tube Division

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